EPA Task Order Statement of Work - Modification
START 4 CONTRACT #: EP-S7-13-06

Activity Type: Additional Remedial Investigation

Created On: 9/26/2016

Task: Technical Assistance and Sample Collection

PO: Debra Dorsey

Task Monitors: Erin McCoy

General Task Description: Due to potential redevelopment and change of land use, additional investigation is necessary to modify the existing Record of Decision (ROD) for OU2/4 at the Des Moines TCE NPL Site. Four general tasks will be included: Task 1 includes updating the cost estimate or building demolition based on previous data; Task 2 includes performing site characterization; Task 3 includes updating the Human Health Risk Assessment; and Task 4 includes development for remedial alternatives for the South Pond Area.

Task Codes:

Estimated Completion Date: 10/31/16

Site/Project Name: Des Moines TCE Site

Address: NA

City, State, Zip: Des Moines, IA

Site ID No: IAD980687933

New Task Order:_____

OR

Amendment to TO#:_0144__

I. INTRODUCTION

A. PURPOSE

Under the authority of legislation, Presidential Directives, and promulgated regulations, EPA is responsible for protecting human health and the environment. EPA is delegated authority to undertake removal and remedial response actions.

The purpose of this Statement of Work (SOW) is for the contractor to provide EPA with technical support. For each assigned task, the contractor shall provide appropriately experienced, trained, and accredited personnel with current credentials/certifications as well as all supplies, materials, tools, and equipment necessary to complete the job.

B. SITE BACKGROUND

The site background was provided on the original SOW.

II. TECHNICAL REQUIREMENTS

The work described in this SOW is in addition to the original SOW. All terms and conditions in the original SOW apply. The only changes are outlined below.

Task 1 – Cost Estimate for Building Demolition

Demolition costs were updated using samples presented in the 1994 Feasibility Study for OU2/4; however, additional samples were collected as part of Task 2 to this SOW and costs increased significantly due to the P and U listed wastes. EPA would like to perform a Focused Feasibility Study on the demolition, which is beyond the original scope of work. The Focused Feasibility Study would include:

- Updating the demolition outlined in the 1994 Feasibility Study to include the Production Building. Since the sampling showed that approximately 90% of the material has P and U listed wastes, no sorting of material should be included in the evaluation. This scenario needs to assume that 100% of the material goes to a hazardous waste landfill.
- Adding an alternative that would include crushing applicable building material on site, spreading the material across the site, and covering the fill with a cap. The remaining material that cannot be crushed needs to be disposed of at a hazardous waste landfill. Efforts should be made to centralize the placement of the fill material to level the property or keep the fill material in as small of a location as possible without damaging any future development.
- Evaluate 3 alternatives against the 9 CERCLA criteria and compare them for the best course of action for future redevelopment of the property. The 3 alternatives include: No further action (leaving the buildings in place with the current ROD), building demolition with disposal (bullet 1), and building demolition with crushing building material as outlined above (bullet 2).
- Incorporate the Focused Feasibility Study into the final report as a separate appendix.
- An additional 160 hours for a Principal Profession is provided on this modification to perform review the potential alternatives (40 hours for each alternative and 40 hours for report writing).
- An additional 40 hours of Principal Professional is provided on this modification to review the Focus Feasibility Study and finalize.
- An additional 4 hours of Clerical is provided on this modification to reproduce the Focus Feasibility Study.

Task 2 – Perform Site Characterization

Since additional data is needed to evaluate crushing the building material, modifications have been made to this task for field work that needs to be performed.

Buildings 1-5, Maintenance Building, and Production Building

- Develop an ASR and submit it to the EPA lab for TCLP analysis of all samples collected. The ASR should be submitted ASAP so that sampling can occur ASAP. Analysis will include:

EPA Hazardous Waste code	Contaminant	Regulated Level (mg/l) (or ppm)
D004	Arsenic (As)	5.0
D005	Barium (Ba)	100.0
D018	Benzene	0.5
D006	Cadmium (Cd)	1.0
D019	Carbon Tetrachloride	0.5
D020	Chlordane	0.03
D021	Chlorobenzene	100.0
D022	Chloroform	6.0
D007	Chromium (Cr)	5.0
D023	o-Cresol	200.0
D024	m-Cresol	200.0
D025	p-Cresol	200.0
D026	Cresol	200.0
D016	2,4-D	10.0
D027	1,4-Dichlorobenzene	7.5
D028	1,2-Dichloroethane	0.5
D029	1,1-Dichloroethylene	0.7
D030	2,4-Dinitrotoluene	0.13
D012	Endrin	0.02
D031	Heptachlor	0.008
D032	Hexachlorobenzene	0.13
D033	Hexachlorobutadiene	0.5
D034	Hexachloroethane	3.0
D008	Lead (Pb)	5.0
D013	Lindane	0.4
D009	Mercury (Hg)	0.2
D014	Methoxychlor	10.0
D035	Methyl ethyl ketone	200.0
D036	Nitrobenzene	2.0
D037	Pentachlorophenol	100.0
D038	Pyridine	5.0
D010	Selenium (Se)	1.0
D011	Silver (Ag)	5.0
D039	Tetrachloroethylene	0.7
D015	Toxaphene	0.5
D040	Trichloroethylene	0.5
D041	2,4, 5-Trichlorophenol	400.0
D042	2,4,6-Trichlorophenol	2.0
D017	2,4,5-TP (Silvex)	1.0
D043	Vinyl Chloride	0.2

- Collect building material samples of insulation, brick, wood, etc., to analyze for TCLPs of Metals, Herbicides, Pesticides, BNAs, & VOAs. Approximately 3 samples per building will be necessary (for a total of 12 samples). The building materials will need to be crushed on site.
- Concrete core samples of the building foundations will need to be collected analyzed as the building samples outlined above. One sample will be collected from each foundation except for the Production Building, where two samples will be collected. A total of 8 concrete samples will be collected. Concrete will need to be crushed on site.
- The work is expected to last approximately 2-3 days.
- An additional 50 hours for a Senior Scientist is provided on this modification to perform and prepare for the field work.
- An additional 50 hours for a Junior Scientist is provided on this modification to perform and prepare for the field work.
- An additional 10 hours of Principal Professional is provided on this modification to review the field work.
- An additional 4 hours of Clerical is provided on this modification to reproduce the additional material necessary for the field work.
- Additional funds are provided for a subcontractor to conduct concrete coring.

III. DOCUMENTATION REQUIREMENTS

In the course of performing tasks identified in this SOW, the contractor shall submit all analyses, options, recommendations, reports, and any other work products in draft form for review by the Contracting Officer (CO) or the Contracting Officer's Representative (COR) prior to use or distribution.

The contractor shall not publish, release, use, or disclose any work product generated under this SOW without EPA's written approval; interpret EPA policies or regulations when conducting any training, seminars, or presentations; and/or provide any legal advice or legal interpretations.

The Government will make all final regulatory, policy, and interpretative decisions resulting from contractor provided advice and assistance; and will also make all final decisions regarding compliance determinations, or the violations of an order, law, regulation, etc.

The contractor shall submit documents that demonstrate a good command and correct usage of the English language (e.g, discussion of facts flow in a coherent and organized manner); use proper grammar (noun and verb tense correspond, etc.); and are free of incomplete sentences and misspelled words.

For deliverables that contain recommendations, the contractor shall explain or rank policy; explain or rank alternative actions; describe procedures used to arrive at recommendations; summarize the substance of deliberation; report any dissenting views; and cite sources relied upon.

Deliverables will generally include sample results, site sketches and a trip report. An additional QAPP is not necessary since the previous QAPP is less than a year old and covers the same events as previously performed.